

# Algebra One Even Answers

**PS 83:** 2]  $N_D = 35, N_Q = 5$  4] 6800 6]  $\frac{1}{64}$  8]  $a^2 + 2ab + b^2 - 7a - 7b$

10]  $D = \{x \in \mathbb{R}\}$  and  $R = \{y \in \mathbb{R} / y = 5\}$  12a]  $x = 4$  b]  $y = 2x$  14] consistent

16] 100 18]  $R_G = 40, R_P = 85$  20] 2 22]  $x(2a + y)(2a - y)$

24] (5, -2) 26a] False b] True 28]  $\frac{abc - 1}{c^2(4 - ac^2)}$  30]  $4140 + \frac{575\pi}{2} \text{ in}^3 \approx 5043.208$

**PS 84:** 2]  $N_N = 42, N_D = 30$  4] -6, -4, -2 6a]  $\frac{1}{18}$  b]  $\frac{5}{6}$  8] b, c, d

10]  $D = \{x \in \mathbb{R} / x \leq 11\}$  12a]  $y = 4$  b]  $y = -2x - 2$  14] (-2, -2)

16] 40 18]  $x \geq -3; D = \{\text{Integers}\}$  20] -51 22]  $x(x + 5)(x + 4)$

24]  $\frac{x - a - 3ax^2 - 2x^2 + 2ax}{x^2(x - a)}$  26] Is less than 3 28]  $\frac{9}{25}$  30]  $648 \text{ in}^2$

**PS 85:** 2] Original Price = \$4000, Price Reduced = \$560 4] 18

6] 

Stem	Leaf
3	1 5 8 9
4	0 1 2 3 5 7 8
5	1 2 3 4 4 9
6	2 3 5

 Range = 34, Median = 47.5, Mode = 54, Mean = 48.1

8]  $\frac{40}{153}$

10]  $6\sqrt{6}$

12]  $D = \{x \in \mathbb{R} / -3 \leq x \leq 31\}$  14] (4, 5) 16] Inconsistent 18]  $R_k = 38, R_M = 87$

20]  $(t + 7)(t - 7)$  22]  $-\frac{122}{13} = -9\frac{5}{13}$  24a] Nat, Whole, Integer, Rational, Real

24b] Integer, Natural, Real 26]  $\frac{1}{x^3} - 4y^5 + 1$  28] -58 30]

216 cm<sup>3</sup>

**PS 86:** 2] 2 4] 228 6a] Range= 52, Med= 82, Mode=85, Mean = 80.2

b]

Stem	Leaf
4	6
5	
6	5 8
7	3 5 9
8	1 2 5 5 7
9	1 3 5 8

8]  $x^2 - 5x + 12 - \frac{19}{x+2}$

10]  $-5x^2 + 24x - 49 + \frac{108}{x+2}$  12]  $864\sqrt{3}$

14]  $D = \{x \in \mathbb{R} / x < 11\}$

16a]  $y = -2x + 4$  b]  $x = -3$  18] (-4, 2) 20]  $6 \times 10^{-5}$  22]  $a(x + 2)(x + 2)$

24]  $a(3+2x)(3-2x)$  26]  $\frac{11}{3} = 3\frac{2}{3}$  28]  $\frac{3}{2} = 1\frac{1}{2}$  30]  $60 + 16\pi \text{ m}^2 \approx 110.265$

**PS 87:** 2]  $N_N = 30, N_Q = 15$  4] 1737

6a] Range= 20, Med= 57, Mode=57, Mean = 57.13

b]

Stem	Leaf
4	8 9
5	0 1 4 7 7 7 7 8
6	1 1 4 5 8

8] Functions = a, b, d Not Function = c

10]  $2x^2 + 3x + 11 + \frac{29}{x-3}$  12] a, b

$$14] 6 - 4y - y^2 \quad 16a] y = 3 \quad b] y = -\frac{1}{3}x - 4 \quad 18] (4, 4)$$

$$20] 1.2 \times 10^{19} \quad 22] -x(x + 7)(x + 5) \quad 24] -56, -42 \quad 26] \frac{x - y}{a + yb}$$

$$28] \frac{1}{x^4 y^2} + 1 - \frac{3a}{x^6 y^2} \quad 30] 128\pi ft^3 \approx 402.124$$